



1 WHAT IS CLAIMED IS:

2 1. ((First Amended)) (CURRENTLY AMENDED) A method  
3 for fabrication of an enclosure device for a preselected  
4 set of speaker drivers, said enclosure having any  
5 preselected external shape and including internal cavities  
6 and channels formed to enhance the ability of said drivers  
7 to reproduce sound with preselected characteristics, the  
8 method comprising the steps of:

9 selecting said external shape and forming an  
10 outline of an external circumferential edge to create a  
11 base template;

12 placing an the outline of the internal  
13 circumferential edges of said drivers within said external  
14 circumferential edge outline of said base template;

15 placing a plurality of guide holes within said  
16 internal circumferential edge;

17 calculating a volume for driver chambers and  
18 supporting ports;

19 selecting a number of said base templates  
20 required to produce a desired volume of chambers and ports;

21 outlining said internal circumferential edges of  
22 said drivers and said guide holes on each of said base  
23 templates whereby said base template external on one end  
24 has openings into which said preselected drivers may be  
25 mounted, said base template external on the opposing side  
26 terminates the driver chambers and said base templates  
27 spaced (space) apart said external opposing base templates  
28 thereby creating the desired chamber volume and ports;

29 outlining the circumferential edges of internal  
30 supports to strengthen and stabilize said enclosure, the  
31 placement of said internal supports being selected whereby  
32 said drivers may be fully inserted within said enclosure  
33 without being limited by said supports;

1       applying each template outline of external  
2 circumferential edges and internal circumferential edges to  
3 preselected sheet stock;  
4       cutting each layer of sheet stock along said  
5 circumferential edges;  
6       calculating the desired characteristics of a (the)  
7 supporting crossover network for said drivers;  
8       fabricating said crossover network with said  
9 characteristics and terminating said network with  
10 connectors for each driver and for externally applied user  
11 supplied input;  
12       mounting said crossover network to a selected  
13 layer whereby said driver connectors are internally  
14 accessible to attach to said drivers upon the condition of  
15 said drivers mounted within said enclosure and said  
16 externally applied user supplied input is externally  
17 accessible;  
18       inserting a reinforcing rod having threaded ends  
19 within each guide hole of an external layer;  
20       applying adhesive to at least one side of each  
21 adjacent layer between said external layer and inside of  
22 opposing external layer;  
23       assembling layers in preselected order by inserting  
24 said reinforcing rods through each successive layer  
25 terminating with said opposing external layer;  
26       applying a nut to each said threaded ends of said  
27 reinforcing rods and tightening each of said nuts thereby  
28 compressing said layers without deforming said layers or  
29 distorting the sound reproduction characteristics of said  
30 enclosure;  
31       mounting said selected drivers within said enclosure,  
32 attaching the terminals of each driver to the corresponding  
33 internal connections of said crossover network;

1           applying a preselected veneer to the external  
2 surface of said assembled enclosure; and,  
3           applying a speaker cloth layer over said speaker  
4 drivers.

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9           2. (ORIGINAL) The method of claim 1 further  
10 comprising the steps of:  
11           testing said assembled templates for sound  
12 reproduction characteristics; and,  
13           adjusting selected circumferential edges to  
14 create desired response of enclosure and drivers.  
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1 WHAT IS CLAIMED IS:

2 1. (CURRENTLY AMENDED) A method for fabrication  
3 of an enclosure device for a preselected set of speaker  
4 drivers, said enclosure having any preselected external  
5 shape and including internal cavities and channels formed  
6 to enhance the ability of said drivers to reproduce sound  
7 with preselected characteristics, the method comprising the  
8 steps of:

9 selecting said external shape and forming an  
10 outline of an external circumferential edge to create a  
11 base template;

12 placing an the outline of the internal  
13 circumferential edges of said drivers within said external  
14 circumferential edge outline of said base template;

15 placing a plurality of guide holes within said  
16 internal circumferential edge;

17 calculating a volume for driver chambers and  
18 supporting ports;

19 selecting a number of said base templates  
20 required to produce a desired volume of chambers and ports;

21 outlining said internal circumferential edges of  
22 said drivers and said guide holes on each of said base  
23 templates whereby said base template external on one end  
24 has openings into which said preselected drivers may be  
25 mounted, said base template external on the opposing side  
26 terminates the driver chambers and said base templates  
27 spaced (space) apart said external opposing base templates  
28 thereby creating the desired chamber volume and ports;

29 outlining the circumferential edges of internal  
30 supports to strengthen and stabilize said enclosure, the  
31 placement of said internal supports being selected whereby  
32 said drivers may be fully inserted within said enclosure  
33 without being limited by said supports;

1       applying each template outline of external  
2 circumferential edges and internal circumferential edges to  
3 preselected sheet stock;  
4       cutting each layer of sheet stock along said  
5 circumferential edges;  
6       calculating the desired characteristics of a (the)  
7 supporting crossover network for said drivers;  
8       fabricating said crossover network with said  
9 characteristics and terminating said network with  
10 connectors for each driver and for externally applied user  
11 supplied input;  
12       mounting said crossover network to a selected  
13 layer whereby said driver connectors are internally  
14 accessible to attach to said drivers upon the condition of  
15 said drivers mounted within said enclosure and said  
16 externally applied user supplied input is externally  
17 accessible;  
18       inserting a reinforcing rod having threaded ends  
19 within each guide hole of an external layer;  
20       applying adhesive to at least one side of each  
21 adjacent layer between said external layer and inside of  
22 opposing external layer;  
23       assembling layers in preselected order by inserting  
24 said reinforcing rods through each successive layer  
25 terminating with said opposing external layer;  
26       applying a nut to each said threaded ends of said  
27 reinforcing rods and tightening each of said nuts thereby  
28 compressing said layers without deforming said layers or  
29 distorting the sound reproduction characteristics of said  
30 enclosure;  
31       mounting said selected drivers within said enclosure,  
32 attaching the terminals of each driver to the corresponding  
33 internal connections of said crossover network;

1           applying a preselected veneer to the external  
2 surface of said assembled enclosure; and,  
3           applying a speaker cloth layer over said speaker  
4 drivers.

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9           2. (ORIGINAL) The method of claim 1 further  
10 comprising the steps of:  
11           testing said assembled templates for sound  
12 reproduction characteristics; and,  
13           adjusting selected circumferential edges to  
14 create desired response of enclosure and drivers.  
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